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TITLE: SMALL GAS CONCENTRATION  
UNIFORMIZING APPARATUS FOR  
MEASUREMENT METABOLISM BY  
FLOW DIVIDING SYSTEM

PUBN-DATE: December 15, 1986

INVENTOR-INFORMATION:

NAME

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US-CL-CURRENT: 128/203.12, 128/205.24 , 128/207.15  
, 600/532

DERWENT-ACC-NO: 1987-026562

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TITLE: Appts. for metabolic  
measurement in anaesthesia -  
includes by-pass pipes taking  
out samples of inhaled and  
exhaled air which are then  
mixed and sampled

PATENT-ASSIGNEE: IKEDA K[IKEDI]

PRIORITY-DATA: 1985JP-0125291 (June 10, 1985)

PATENT-FAMILY:

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<u>JP 61284257 A</u>		December 15, 1986
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JP 90016148 B		April 16, 1990
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APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
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JP 61284257A	N/A	
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INT-CL (IPC): A61M016/00, G01N033/49

BASIC-ABSTRACT:

Main passages (15), (17), (19), (21), (23) which connects between an anesthetising unit and a person (M) to be measured, and through which the exhalation and inspiration of the person (M) flow; bypass passages (39), (41), (43), (45) through which the exhalation and inspiration flow; and mixing chambers (13a), (13b) to sample unified gases. The bypass passages are provided on the way of the main passages to divide the flow in the main passages; and the mixing chambers are provided on the way of the bypass passages.

This device is used in detecting the concns. of gases necessary for metabolic measurement. To detect the concns. of exhalation and inspiration necessary for metabolic measurement, it is required to make the concn. of each gas uniform. Front flexible tubes (15), (17) and rear flexible tubes (19), (21) are connected to the mixing chambers (13a), (13b). Exhalation gas passes through the tubes (15), (19) and inspiration gas through tubes (17), (21). That is, the mixing chambers are arranged on the way of the main passages. Bypass passages (39), (41) introduce exhalation gas or inspiration gas flowing through passages into the mixing chambers, and bypass

passages (43), (45) return the exhalation gas or inspiration gas in the mixing chambers into the passages. Gases sampled from the mixing chambers are led to a gas analyser (25).

ADVANTAGE - The mixing chambers can be made compact.

CHOSEN-DRAWING: Dwg.1/10

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CPI-CODES: B11-C04; B11-C08; B12-C01; B12-K04A;

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